



20-30 Watt Universal 3-Wire Input Adapter PSA31U Single Output Switching Power Supply



Features

- Low Cost
- Class B EMI
- Non-vented/Spill-proof Case
- Low Profile Design

Applications

- Portable Equipment
- Peripherals
- Networking
- Gaming Machines

Safety Approvals

- cUL/UL
- CE
- C-Tick
- TÜV
- SAA
- Meeting Cal. Prop. 65

Mechanical Characteristics

- Length: 113mm (4.45in)
- Width: 61mm (2.4in)
- Height: 34mm (1.34in)
- Weight: 242g (8.5oz.)

Output Specifications

| Model | DC Output Voltage | Load | | Ripple (1) P-P (max.) | Regulation L-L |
|------------|-------------------|------|--------|--------------------------|----------------|
| | | Min. | Max. | | |
| PSA31U-050 | +5V | 0A | 4A | 50mV | ±5% |
| PSA31U-090 | +9V | 0A | 2.2A | 90mV | ±5% |
| PSA31U-120 | +12V | 0A | 2.5A | 120mV | ±5% |
| PSA31U-150 | +15V | 0A | 2A | 150mV | ±5% |
| PSA31U-180 | +18V | 0A | 1.6A | 180mV | ±5% |
| PSA31U-240 | +24V | 0A | 1.25A | 240mV | ±5% |
| PSA31U-480 | +48V | 0A | 0.625A | 200mV | ±5% |

(1) Measured with by-pass capacitors 0.1uF/10uF at output connector terminal and oscilloscope set at 20 Mhz.

Phihong is not responsible for any error and change. Please consult the factory and visit www.phihong.com for the most up-to-date specifications.

INPUT:**AC Input Voltage Rating**

100 to 240VAC

AC Input Voltage Range

90 to 264VAC

AC Input Frequency

47 to 63Hz

Input Current

1A (rms) Max. @ 115VAC

0.5A (rms) Max. @ 230VAC

Leakage Current

3.5mA Max.

Inrush Current (cold)

30A for 115VAC at Max. load

60A for 230VAC at Max. load

(Cold start @ ambient 25°C)

OUTPUT:**Efficiency**

70% typical

Hold-up Time

12mS Min. @ 120VAC and Max. load

Over-voltage Protection

>130% over-voltage detection, adapter will be shut down

Over-current Protection

Output equipped with short circuit protection – auto restart

Short Circuit Protection

Output can be shorted without damage

ENVIRONMENTAL:**Temperature**

Operation 0 to +45°C

Non-operation -30 to +85°C

Humidity

Operation 8 to 90%

Emissions

FCC Class B

EN55022 Class B

VCCI Class B

Immunity

61000-4-2 Level 4 ESD

61000-4-4 Level 2 FET/Burst

61000-4-5 (L-N) Level 2 Surge

(L-G) Level 3

Dielectric Withstand (Hi-pot) Test

Primary to Secondary: 1500VAC for 1 minute, 10mA

DC Output Connector

2.1x5.5mm Center Positive Standard

Dimension Diagram Unit: mm